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Fever - Inter - vol. 1

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Dr

Inaugural Dissertation

on

Intermittent Fever

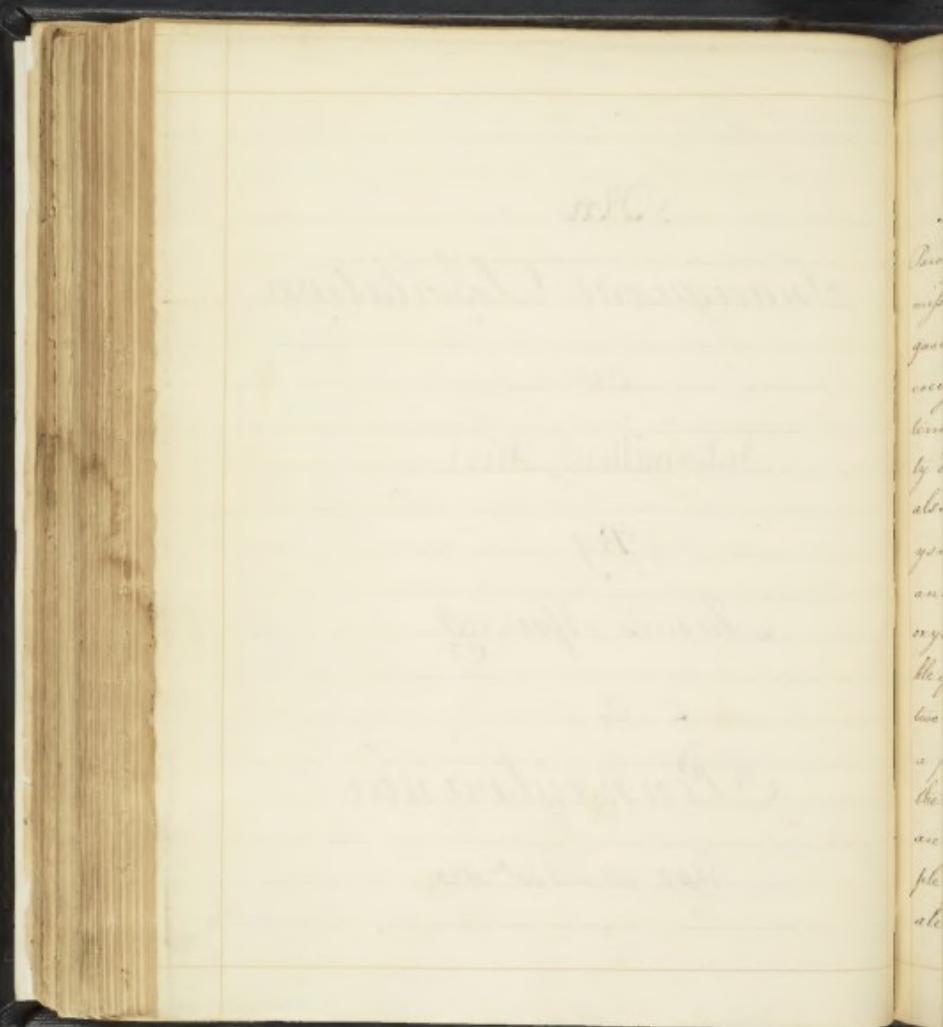
By

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of

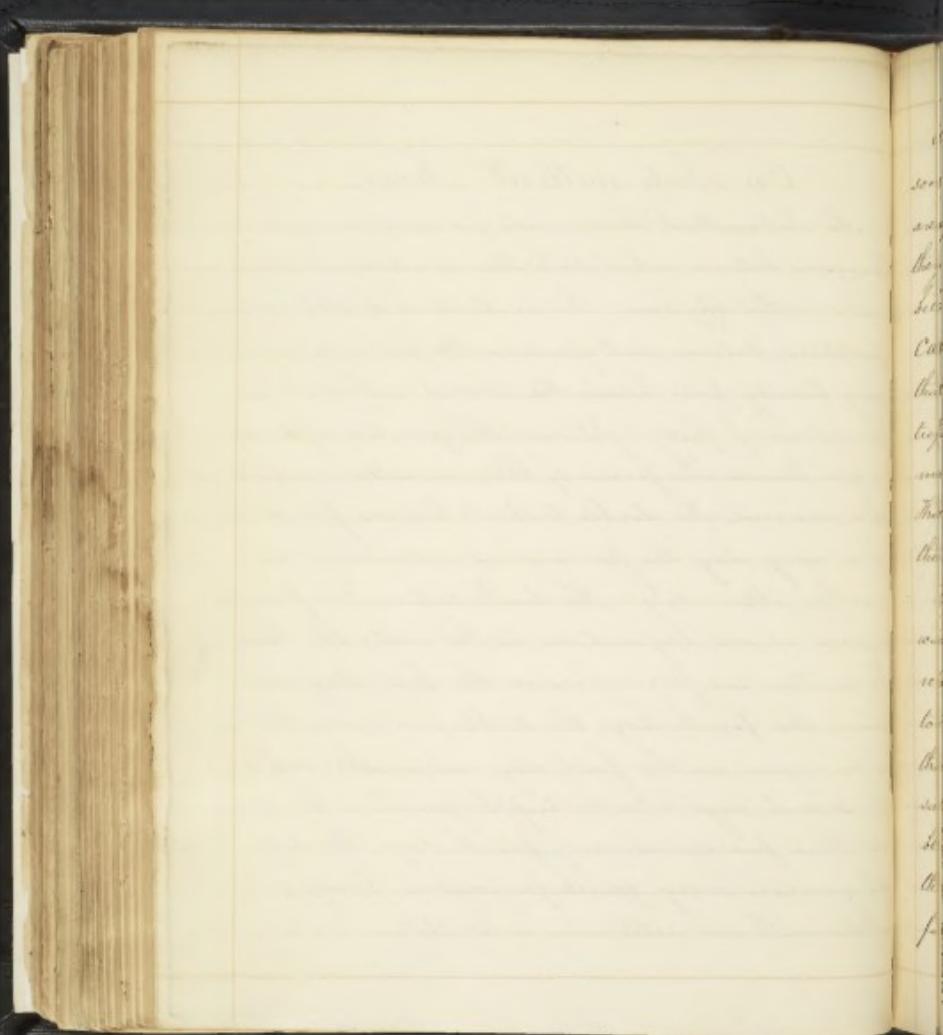
Pennsylvania.

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On Intermittent Fever.

In Intermittent Fever consists of a succession of Paroxysms between each of which there is a distinct intermission called Apyrexia: Intermittents are divided into tertian; tertian; and quartan; the first returning every twenty four hours, the second with an interval of forty eight, and the quartan of sixty hours. The forms of these varieties are also various. The double tertian has one paroxysm every day the paroxysms resembling one another alternately: The double tertian two paroxysms on one day and one on the next; the double quartan two paroxysms on the first day, and two on the fourth day; the double quartan with a paroxysm on the first day and another on the second day. In the triple quartan there are three paroxysms every fourth day. The triple quartan every fourth paroxysm being alike with one returning every day.



When intermittents prevail in the Spring sea-
son they generally assume the tertian type and
are of an inflammatory character; in the autumn
they assume the quartan form attended with
delirious symptoms.

Causes. It appears to be generally acknowledged
that the Marsh miasma arising from the pu-
trefaction of vegetable matter is the
most common cause of intermittent Fever.
This observation was first made by Pancisi about
the middle of the seventeenth century.

Intermittent fever is not a disease of very
warm or very cold climates. Clark and others
remark, that it rarely occurs near the equa-
tor. It is the opinion of Sir John Pringle
that the effluvia arising from marshes of
salt and fresh water united are more favora-
ble to the production of intermittents than
that of fresh water alone. Intemperance, great
fatigue, wearing damp clothes, cold damp
(atmosphere)

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atmospheric, increase of bile, grief, much anxiety, a watery, poor diet, the suppression of some long accustomed evacuation also produce it. It has been believed that intermitents are communicated by contagion; this hypothesis however is not supported by experience; relapses frequently occur after the disease has been checked. A disordered state of the stomach and prima via is generally believed to be the proximate cause of intermittent fever.

Symptoms. The paroxysm of an intermittent fever is divided into three different stages, the cold, the hot, and the sweating. Upon the approach of the first, the face becomes pale and the skin constricted, a sense of debility, languor, frequent yawning, sluggishness and loss of appetite. The patient complains of being cold; the pulse is small, weak, and sometimes irregular, the respiration is disturbed and anxious, there is pain in the head, back, and extremities

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extremities. Drowsiness seldom occurs, when it does it resembles opnophly. The cold stage is partial in some cases, being confined to one or more of the extremities while in other parts of the body considerable heat is felt, accompanied with coughing and great dejection of spirits; the sight and hearing are often impaired. It has been remarked by Glaucom and Cleghorn that the cold stage is sometimes wanting, the hot occurring first.

In the hot stage, the face is flushed; the tongue is furred, the skin is dry and hot with anxiety great pain in the head, throbbing of the temples, and an increase of sensibility; the pulse is hard, full and irregular; the respiration frequent and more free than in the cold stage, and delirium not unfrequently comes on if the attack is violent. When haemorrhages occur, they generally come on in the hot stage; most generally the blood flows from the nose, sometimes from the lungs,

(ulcers).

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ulcers, and rectum; when the system is in a full plethoraic state, they prove curable; but on the contrary when it is much debilitated, they are ulcerous, injurious, & not removable; that the hot stage is sometimes so slight as scarcely to be perceived. After sometime the symptoms of the hot stage gradually abate, and a涅槃 (Nirvana) appears first on the forehead, which gradually extends itself over the body in the form of sweat; the respiration becomes more free; the urine deposits a sediment; the heat and heat of the body abate; the pain in the head and back disappear; and the patient is left in a state of debility. These phenomena generally attend a paroxysm of intermittent fever; but this is not always the case as they prevail to a greater or less extent in different persons and in the same persons at different periods.

Prognosis. In some cases the prostration
is strong;

of strength is so great as to destroy ^{the patient} on the first attack? Recovery is generally considered favourable; excessive debility of the material functions indicates great danger. When intermitents have continued a length of time; they are sometimes converted into a remittent or continued fever, or lay the foundation of other diseases, as dropsy, & scirrhous of the liver or spleen. When the paroxysms are of long continuance, violent with much delirium or coma we expect a slow and difficult cure; but if the paroxysms are short and their return regular we may expect a speedy recovery. From convulsions and apoplexy, death sometimes takes place during the fever; but never in the sweating stage. When intermitents terminate fatally, death generally takes place in the cold stage.

Appearances on dissection. They generally consist

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find inflammation of the pleura, &c., in the spleen, liver, and many of the other viscera and in those who have died in the cold stage, accumulations of blood in the liver and spleen. The amentum, stomach, mesentery are not unfrequently found inflamed and sometimes sphacelated. The pancreas is sometimes enlarged and ulcerated. The brain is sometimes, though rarely inflamed.

Treatment. In the cold stage the patient is to be confined to bed, warm beds or bottles filled with warm water are to be applied to the extremities, and warm dilute tinctures to be freely administered, as says balm, or hinsel's tea. When these fail we must have recourse to stimulants; the most popular are volatile alkali, tinctura opii from twenty five to thirty drachms, or sulphuric ether given to the extent of a drachm, either of which may be repeated if necessary. The application

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application of a bandage on the thigh and
arm of opposite sides has sometimes succeed-
ed in stopping the purgative: When the cure
is obstinate it has been found capable to adminis-
ter from two to three grains of opium either
alone or combined with a fourth of a grain
of tartarized antimony or two grains of
opiumcum two hours before the purgative
is expected. An intermittent fever has also
sett in the stomach much good is to be
expected from the administration of an
emetic before the commencement of the
cold stage. By this means we are enabled to
remove the morbid humor and consequently
to prevent its return.

In the hot stage we may give an emetic
of antimonial tartar, after the operation
in which we may advise some aperient
medicine, as the antimonial powder, speci-
als of manteron and caputervium: When

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there is much nausea the physician will
doubtless or the neutral mixture may be
given. If the system refuses to react, the ex-
terior will be cold and the patient sinking, we
should immediately apply antifacients with
the volatile alkali and opium intermittently.

If the heat in the tract is severe, respiration
labored, the pulse full and strong, we
must bleed immediately however; but if these
symptoms are not relieved after waiting a few
minutes a blister must be applied to the
scroft, and cups or leeches to the ^{back of} temples cold
drink is grateful and often serviceable in
the hot stage. When vomiting and purging
of late specifically take place in this stage
detoxics are necessary, but if they continue
to be severe opiates must be administered.

These rarely occur in which medicine
is necessary in the sweating stage. When the
fever intermits we should commence at

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won't be possible with the peruvian Bark, after
the alimentary canal has been evacuated by
emetics and purges, some section is sometimes
necessary. Some stomachs are so irritable as
to reject the bark, in such cases it must be
combined with Peruvian snake root, clover,
nutmeg, or other aromatic, some of which
are supposed to increase its powers. If the bark
should produce constiveness, a few grains of the
bark may be added; but on the contrary if
it occasions purging it may be checked by adding
Turp or opium. If constiveness should continue any
length of time a gentle cathartic will be pro-
per. When the stomach is irritable, the bark
must be given by emulsion, and repeated
every three or four hours to the extent of two
or three drachms mixed with a mess of
Gum arabic and a few drops of linctura opii.
The red bark, when pure is decidedly the best.
The Watery extract of Bark, which is pre-
pared



prepared by slow evaporation of the water
infusor, may be given in the dose of ten or
fifteen grains every hour during the inter-
mission, either in pills or in solution, with
two or three drachms to 3 p. sp^l. Seventeen
comp. and 3 p. of water. Of late this medicine
has been prescribed by some of the most dis-
tinguished practitioners of Philadelphia,
who speak of it in the highest terms. The bark
has been prescribed in a great variety of
forms, but of all those the powder is doubtless
the best, when it agrees with the stomach.
One or two drachms may be given every
hour increasing the dose during the inter-
mission. It is sometimes used externally
in cases of delicate females and children,
melted in a candle, and applied round
the body. Dr. Rush says when the bark
fails after repeated trials moderate bleeding
will generally prove successful. Where there
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is much inflammation or fever we must be cautious in the use of the bark: on the other hand if there is much debility and tendency to typhus, we must commence early with this medicine, and give it in as large doses as the stomach will bear. Senna or milk is said to be the best means of lessening the taste of this article. The use of the bark should be continued for ten or fifteen days after the disease has been removed. Quassia is used with advantage in the West Indies. A variety of Barks have been substituted for the Peruviana; as wild Cherry Tree (*Prunus Virginiana*), white Oak, black Cedar, cinnamon Bark, Toy Wood (from a Florida), Agastache and Willow, all of which are very inferior to the Cinchona in the unadulterated state. Dr. Wright has used the bark of the Mahogany Tree with considerable advantage. It is asserted



by Dr. M. Miller, physician to one of your most
prosperous French houses before the reception
of the powder you will not only prevent it,
but sometimes entirely remove the disease.

In the United States, the dispute over
Opium has been carried with considerable
success; it acts as a tonic and stimulant, it
may be given, either in the powder or in
opopanax.

Kino has been employed also recently
in the following manner.

℞ Gum Kino ℥ij.

Salvia Gentianæ ℥ss.

Gum Opium gr. ij. mixed and ter-
minated into twelve powders, one to be taken
every two hours or four hours. This could be
given in the dose of an drachm, and repeat-
ed every two or three hours. Salvia has
been administered with success in spasmodic
tumors, as in such. An Intermittent like

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sulphate of Copper is a valuable remedy, given to the extent of one fourth of a grain, combined with two of American Balsm repeated four times a day. Socothyes enlargement of the spleen and liver sometimes takes place, when Intermittents have continued for a length of time, which may be removed by the use of Mercury, till the mouth is effected if it cannot be taken internally, it must be applied on the form of Ointment, rubbed into the gingivae. Tropical swellings which often come on about the termination of the disease, may for the most part be removed by the use of Camom. Tinctur in small doses, frequently repeated.

The Saccharum sativum has been highly recommended by Dr. Bartow, but at present not much in repute. Not a great little has been said of Urticaria in this disease, given in solution, as directed by

(Dr. Fowler.)

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Dr. Fowler, it has proved successful in some
obstinate cases of intermittent Fever; and is
best adapted to the case of children and deli-
cate women; the dose is from ten to twelve
drops for an adult repeated three a day
during the intermission. It proves more
efficacious, when given in conjunction
with the Peruvian bark.

The Tela Aranii or Spider's web, has
been prescribed ^{instead of opium} with success by Pro-
fessors Physick and Chapman in doses
of five grains, repeated every four or five
hours. That which is found in cellars and
dark places is the best.

Diet. If an inflammatory diathesis ex-
ists we must recommend light food, as
Peanuts, Sago, Tapioca and Barley; but
in patients of a weak habit, a contrary
course must be pursued, wine and ani-
mal food may be taken.

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Preventives. The best preventives are a generous diet, comfortable clothing, the use of Park, or infusion of Perissia once or twice a day, change of air, exercise in the open air, on horseback and in carriages, avoiding every thing that tends to debilitate.

